

**CRYSTAL CONTROLLED  
OSCILLATORS**AURORA, IL 60505  
PHONE (630) 851-4722  
FAX (630) 851-5040  
www.conwin.com**HCMOS SM CLOCK WITH ENABLE/DISABLE  
SURFACE MOUNT 6-PIN**

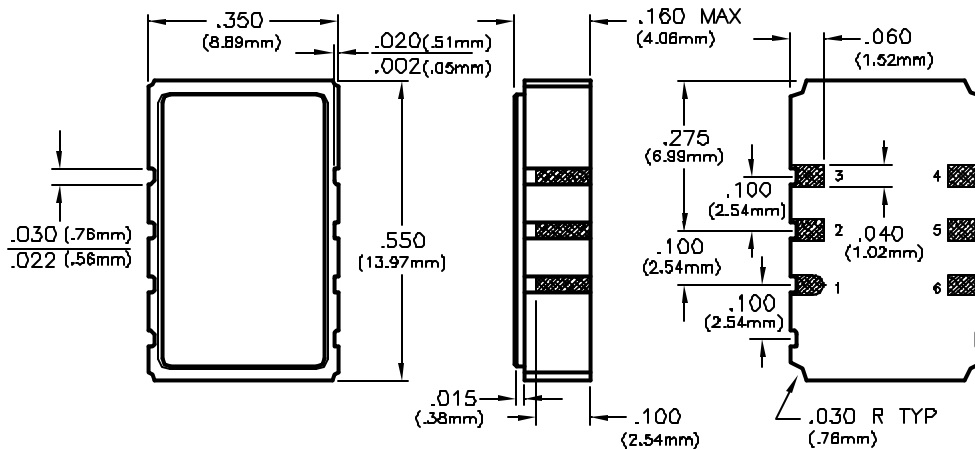
SPECIFICATIONS			MSD51A1	MSD52A1	MSD53A1	MSD54A1
Frequency Range			2MHz to 67MHz			
Frequency Stability			±25ppm	±50ppm	±100ppm	±20ppm
			(Inclusive of calibration tolerance at 25°C and operating temperature range, input voltage change, aging 15 years, shock and vibration)			
Temperature Range			0°C to +70°C			
Output	Waveform		HCMOS Squarewave			
	Load		15pF Maximum			
	Voltage	Voh	Vcc – .5V Minimum			
		Vol	0.40V Maximum			
	Current	Ioh	–8mA			
		Iol	8mA			
	Duty Cycle		45/55 Maximum Measured at 50% of Vdd			
	Rise/Fall Time		3nS Typical			
	Jitter		5pS RMS Maximum			
Input	Enable/Disable		Pin 1			
	Output Enable/Disable Time		100nS			
	Enable Vih		2.0V Minimum			
	Disable		0.5V Maximum			
			Oscillator output is enabled with no connection on pin 1			
Start Up Time			10mS Maximum			
Supply Voltage (Vdd)			3.3Vdc ±0.3Vdc			
Supply Current			15mA Typical , 30mA Maximum			
Package			Hermetically sealed, leadless ceramic package			

**EXAMPLE MODEL NUMBER:****M S D 5 1 A 1 / 4 7 . 7 6 M H z**SURFACE MOUNT  
HCMOS SERIESLEAD  
OPTION

CENTER FREQUENCY

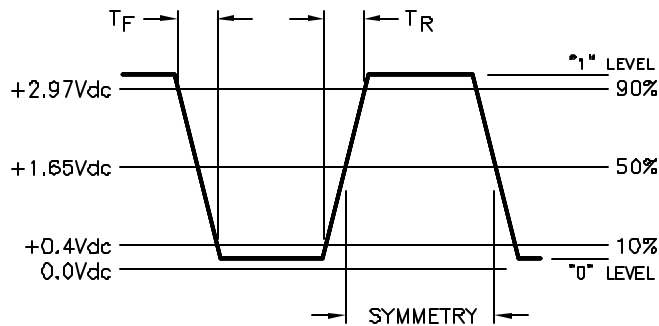
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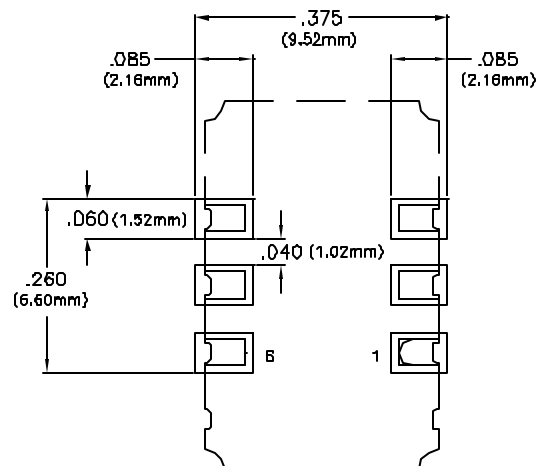


PIN	CONNECTION
1	E/D TRI-STATE
2	N/C
3	GROUND
4	OUTPUT
5	N/C
6	Vcc

## OUTPUT WAVEFORM



## SUGGESTED PAD LAYOUT



## TEST CIRCUIT

